

Title (en)

METHOD FOR CONTROLLING FUEL INJECTION OF MARINE DIESEL ENGINE AND DEVICE THEREFOR

Title (de)

VERFAHREN ZUR STEUERUNG DER KRAFTSTOFFEINSPRITZUNG EINES SCHIFFSDIESELMOTORS UND VORRICHTUNG DAFÜR

Title (fr)

PROCEDE ET DISPOSITIF DE COMMANDE D INJECTION DE CARBURANT POUR UN MOTEUR DIESEL MARIN

Publication

EP 1816332 A4 20091111 (EN)

Application

EP 05805540 A 20051104

Priority

- JP 2005020305 W 20051104
- JP 2004321024 A 20041104

Abstract (en)

[origin: EP1816332A1] A method and a device for controlling fuel injection of a marine diesel engine wherein the control is exercised so as to match the loading condition at the time point of fuel injection are provided. The method comprises: a step of measuring the fuel injection amount and the rotational speed of the marine diesel engine a prescribed number of times at prescribed time intervals and inputting the measurements, a step of evaluating a relational expression satisfying the relation between the fuel injection amount and the rotational speed of the marine diesel engine, a step of calculating the fuel injection amount (u k) that should be injected at present according to said relational expression when the rotational speed of the marine diesel engine is set to a target rotational speed, and a step of controlling the opening of the fuel injection valve of the marine diesel engine so as to match said calculated fuel injection amount at present.

IPC 8 full level

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CPC (source: EP KR)

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Citation (search report)

- [Y] JP S6217345 A 19870126 - MITSUBISHI HEAVY IND LTD
- [Y] EP 1286033 A2 20030226 - VOLKSWAGEN AG [DE]
- [A] EP 0338560 A2 19891025 - HITACHI LTD [JP]
- [A] US 5222022 A 19930622 - ADAMS LARRY L [US], et al
- See references of WO 2006049252A1

Cited by

US10308265B2; US9669851B2; US10569792B2; US9733625B2; US9834237B2

Designated contracting state (EPC)

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EP 1816332 A1 20070808; **EP 1816332 A4 20091111**; **EP 1816332 B1 20140226**; CN 101091046 A 20071219; CN 101091046 B 20100811; JP 5061347 B2 20121031; JP WO2006049252 A1 20080529; KR 101162397 B1 20120704; KR 20070085670 A 20070827; WO 2006049252 A1 20060511

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